

ABSTRACT OF THE DISCLOSURE

5 An optical fiber making apparatus has a main pipe connected to the
furnace core tube, two branch pipes branching from the main pipe, and a gas
source, a valve and a flow meter connected to each of the branch pipes. The
flows or compositions of the inert gases supplied from the gas sources into the
furnace core tube are varied. This changes the amount of heat applied to the
lower end of the optical fiber preform, without depending solely on the main
heater, to adjust the draw tension and thereby change the local chromatic
dispersion along the longitudinal direction of the optical fiber being
10 manufactured.